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## WHAT IS CLAIMED IS:

- A method for creating a single digital image file from multiple digital images, comprising:
   using a single imaging station to generate a plurality of digital images from a medium,
   each digital image representing the same source image on the medium; and
- combining the plurality of digital images to create a single enhanced digital image which represents the source image.
- 2. The method as recited in claim 1, wherein the medium comprises developing film.
- 3. The method as recited in claim 1, wherein the imaging station comprises a radiation source and a radiation sensor.
- 4. The method as recited in claim 1, further comprising: moving the medium through the single imaging station in a continuous uni-directional path.
- 5. The method as recited in claim 4, wherein the medium is moved by applying the medium to a transport structure and rotating the structure.
- 6. The method as recited in claim 1, wherein the medium comprises developing film, and the imaging station comprises a back source configured to apply radiation to the back of the developing film, a front source configured to apply radiation to the front of the developing film, a back sensor configured to sense radiation from the back of the developing film, and a front sensor configured to sense radiation from the front of the developing film.
- 7. The method as recited in claim 1, further comprising: aligning the plurality of digital images.
- 8. A method for creating a digital image file from a developing film, comprising: applying developer to film to cause the film to begin to develop;

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positioning a frame on the developing film in front of a source during a first film development period;

during the first film development period, applying radiation to the frame of the developing film using the source;

sensing first radiation from the frame of the film during the first film development period using a sensor;

creating a first digital image file from the sensed first radiation;

returning the frame to the source during a second film development period;

during the second film development period, applying radiation to the frame of the developing film using the source;

sensing second radiation from the frame of the film during the second film development period using a sensor;

creating a second digital image file from the sensed second radiation; and combining the first and second digital image files to form a combined digital image file which represents the frame.

9. The method as recited in claim 8, wherein each sensing step comprises:

sensing radiation reflected from the front and back of the film and radiation transmitted through the film.

- 10. The method as recited in claim 8, wherein the positioning and returning steps are conducted by moving the film in the same direction.
- 11. The method as recited in claim 8, wherein the positioning and returning steps are conducted by moving the developing film in a uni-directional continuous path.
- 12. The method as recited in claim 11, wherein the moving step is conducted by applying the developing film to a film transport structure and rotating the structure.
- 13. The method as recited in claim 12, wherein the structure has a circular shape.

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- 14. A digital film development system, comprising:
  - a source configured to apply radiation to a developing film strip;
  - a sensor configured to sense radiation from the developing film strip; and
- a transportation system adapted to move the developing film strip past the source and sensor multiple times in a continuous unidirectional path.
- 15. The system as recited in claim 14, wherein the sensor is configured to provide multiple digital images for each frame on the film.
- 16. The system as recited in claim 15, further comprising:
  an image processor configured to combine the digital images for each frame.
- 17. The system as recited in claim 14, wherein the source comprises a back source configured to apply radiation to the back of the film and a front source configured to apply radiation to the front of the film.
- 18. The system as recited in claim 14, wherein the sensor comprises a back sensor configured to sense radiation from the back of the film and a front sensor configured to sense radiation from the front of the film.